Improvements to Roads and Drains at Anjanadri Layout and Surrounding Area in Ward No 06 Thanisandra

First and Part Bill

Quality Control Reports

BOOK NO - 01

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	15 set /551-600 cum	565.49	30	30

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-27-54** **Date: 13-02-21**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	10-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-27-54** **Date: 12-03-21**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	10-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-27-54** **Date: 13-02-21**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	10-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-27-54** **Date: 13-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-27-54** **Date: 12-02-21**
Project Name	:	Improvements to Roads and Drains at Arjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	10-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-27-54** **Date: 12-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Date: 12-02-21

Lab ID	:	**CP-2021-02-27-54**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	10-02-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	10-02-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-27-54**

Date: 12-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Date: 08-03-21

Lab ID	:	**CP-2021-02-27-54**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	06-03-21
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-03-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-02-27-54** **Date: 06-04-21**

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 02-04-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 02/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 12-04-21

Lab ID	:	CP-2021-02-27-54
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	08-04-21
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	08/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	582.9	18.5	17.2	21.5
2	Cover Slab-2	200.49	250.52	3.122	31564	581.8	18.4	17.1	21.4
3	Cover Slab-3	200.50	250.51	3.118	31567	586.9	18.6	17.3	21.6

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಸಮಾಲೋಚಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2021

Lab ID	:	CP-2021-02-27-54
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	12-03-21
Customer ID	:	Drain Bottom Slab Concrete, (Anjanadri layout,Noor Mazidh road, 3rd cross)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/03/2021	17/03/2021	149.20 X 150.52 X 149.65	22457	8.600	420.2	18.7	18.7
2	Drain Bottom Slab Concrete	M20	10/03/2021	17/03/2021	149.06 X 150.12 X 150.09	22376	8.788	417.7	18.7	
3	Drain Bottom Slab Concrete	M20	10/03/2021	17/03/2021	149.78 X 151.13 X 151.13	22637	8.993	427.0	18.9	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2021

Lab ID	:	CP-2021-02-27-54
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	12-03-21
Customer ID	:	Drain Bottom Slab Concrete, (Anjanadri layout,Noor Mazidh road, 3rd cross)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	07/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/03/2021	07/04/2021	149.41 X 149.22 X 151.10	22294	8.410	520.1	23.3	23.0
2	Drain Bottom Slab Concrete	M20	10/03/2021	07/04/2021	151.19 X 151.87 X 150.35	22961	8.093	517.9	22.6	
3	Drain Bottom Slab Concrete	M20	10/03/2021	07/04/2021	149.73 X 150.33 X 151.96	22510	8.248	518.0	23.0	

* The results obtained are satisfactory as per standard requirements.

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Page 1/1
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ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2021

Lab ID	:	**CP-2021-02-27-54**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	12-03-21
Customer ID	:	Drain Bottom Slab Concrete, (MNK Vidyakendra main road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/03/2021	17/03/2021	151.46 X 151.93 X 151.24	23011	8.600	436.0	18.9	18.7
2	Drain Bottom Slab Concrete	M20	10/03/2021	17/03/2021	150.56 X 151.13 X 149.40	22755	8.788	415.7	18.3	
3	Drain Bottom Slab Concrete	M20	10/03/2021	17/03/2021	151.39 X 150.56 X 149.76	22792	8.993	427.4	18.8	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 **Date: 07/04/2021**

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinayaka Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 12-03-21

Customer ID : Drain Bottom Slab Concrete, (MNK Vidyakendra main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/03/2021	07/04/2021	149.67 X 149.82 X 150.47	22424	8.410	533.9	23.8	23.3
2	Drain Bottom Slab Concrete	M20	10/03/2021	07/04/2021	151.26 X 149.35 X 149.07	22591	8.093	515.6	22.8	
3	Drain Bottom Slab Concrete	M20	10/03/2021	07/04/2021	149.26 X 151.26 X 149.59	22576	8.248	528.6	23.4	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/03/2021

Lab ID : CP-2021-02-27-54

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 15-03-21

Customer ID : Drain Bottom Slab Concrete, (8th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	12/03/2021	19/03/2021	150.91 X 149.01 X 149.25	22487	8.600	427.0	19.0	18.9
2	Drain Bottom Slab Concrete	M20	12/03/2021	19/03/2021	149.41 X 149.59 X 150.13	22351	8.788	416.0	18.6	
3	Drain Bottom Slab Concrete	M20	12/03/2021	19/03/2021	150.70 X 151.26 X 149.10	22795	8.993	432.6	19.0	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-27-54** **Date: 09/04/2021**

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 15-03-21

Customer ID : Drain Bottom Slab Concrete, (8th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	12/03/2021	09/04/2021	151.99 X 151.51 X 151.90	23029	8.410	546.8	23.7	23.5
2	Drain Bottom Slab Concrete	M20	12/03/2021	09/04/2021	149.50 X 150.26 X 151.43	22463	8.093	509.5	22.7	
3	Drain Bottom Slab Concrete	M20	12/03/2021	09/04/2021	151.79 X 149.23 X 150.27	22652	8.248	542.9	24.0	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 **Date: 19/03/2021**

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 15-03-21

Customer ID : Drain Bottom Slab Concrete, (9th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/03/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	12/03/2021	19/03/2021	151.84 X 150.77 X 149.98	22892	8.600	424.4	18.5	18.3
2	Drain Bottom Slab Concrete	M20	12/03/2021	19/03/2021	149.73 X 151.27 X 149.65	22650	8.788	408.6	18.0	
3	Drain Bottom Slab Concrete	M20	12/03/2021	19/03/2021	149.46 X 151.71 X 149.82	22675	8.993	412.2	18.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/04/2021

Lab ID	:	**CP-2021-02-27-54**
Project Name	:	Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra
Agency	:	Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97
Customer's Reference	:	BBMP/EE/BTP/WO/186/2020-21
Date of Receipt	:	15-03-21
Customer ID	:	Drain Bottom Slab Concrete, (9th Cross Road)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	12/03/2021	09/04/2021	151.88 X 150.15 X 149.64	22805	8.410	531.1	23.3	23.1
2	Drain Bottom Slab Concrete	M20	12/03/2021	09/04/2021	150.40 X 150.35 X 149.27	22613	8.093	516.2	22.8	
3	Drain Bottom Slab Concrete	M20	12/03/2021	09/04/2021	151.12 X 149.89 X 150.21	22651	8.248	527.6	23.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 23/03/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 18-03-21

Customer ID : Drain Bottom Slab Concrete, (6th Cross, Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/03/2021	23/03/2021	150.48 X 149.61 X 149.19	22513	8.600	424.2	18.8	18.8
2	Drain Bottom Slab Concrete	M20	16/03/2021	23/03/2021	150.06 X 151.50 X 151.61	22735	8.788	430.2	18.9	
3	Drain Bottom Slab Concrete	M20	16/03/2021	23/03/2021	150.33 X 150.67 X 150.44	22650	8.993	423.2	18.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 14/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 18-03-21

Customer ID : Drain Bottom Slab Concrete, (6th Cross, Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/03/2021	13/04/2021	149.61 X 151.50 X 151.90	22666	8.410	543.6	24.0	23.4
2	Drain Bottom Slab Concrete	M20	16/03/2021	13/04/2021	151.64 X 150.04 X 149.70	22752	8.093	509.3	22.4	
3	Drain Bottom Slab Concrete	M20	16/03/2021	13/04/2021	151.63 X 150.17 X 150.08	22770	8.248	542.2	23.8	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 23/03/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 18-03-21

Customer ID : Drain Bottom Slab Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/03/2021	23/03/2021	150.27 X 150.60 X 151.65	22631	8.600	413.4	18.3	18.4
2	Drain Bottom Slab Concrete	M20	16/03/2021	23/03/2021	149.53 X 151.29 X 151.12	22622	8.788	416.8	18.4	
3	Drain Bottom Slab Concrete	M20	16/03/2021	23/03/2021	151.91 X 151.63 X 149.98	23035	8.993	428.1	18.6	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 14/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 18-03-21

Customer ID : Drain Bottom Slab Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	16/03/2021	13/04/2021	150.07 X 151.08 X 149.47	22673	8.410	539.7	23.8	23.3
2	Drain Bottom Slab Concrete	M20	16/03/2021	13/04/2021	149.64 X 150.32 X 149.19	22494	8.093	510.7	22.7	
3	Drain Bottom Slab Concrete	M20	16/03/2021	13/04/2021	149.59 X 149.05 X 149.62	22297	8.248	523.8	23.5	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 29/03/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 24-03-21

Customer ID : Drain Side Wall Concrete, (Anjanadri layout,Noor Mazidh road, 3rd cross)

Sample Type /Size : 150X150X150 mm

Sample grade/ Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/03/2021	29/03/2021	149.70 X 151.74 X 151.48	22716	8.600	423.1	18.6	18.7
2	Drain Side Wall Concrete	M20	22/03/2021	29/03/2021	151.71 X 151.95 X 150.45	23052	8.788	436.9	19.0	
3	Drain Side Wall Concrete	M20	22/03/2021	29/03/2021	150.05 X 150.98 X 149.50	22655	8.993	420.5	18.6	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 19/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 24-03-21

Customer ID : Drain Side Wall Concrete, (Anjanadri layout,Noor Mazidh road, 3rd cross)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/03/2021	19/04/2021	151.17 X 149.27 X 149.99	22565	8.410	520.4	23.1	23.0
2	Drain Side Wall Concrete	M20	22/03/2021	19/04/2021	151.04 X 151.62 X 149.22	22901	8.093	519.2	22.7	
3	Drain Side Wall Concrete	M20	22/03/2021	19/04/2021	150.04 X 151.78 X 150.41	22774	8.248	529.6	23.3	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 29/03/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 24-03-21

Customer ID : Drain Side Wall Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/03/2021	29/03/2021	150.77 X 151.92 X 151.28	22906	8.600	434.1	19.0	18.7
2	Drain Side Wall Concrete	M20	22/03/2021	29/03/2021	150.88 X 149.43 X 151.20	22546	8.788	428.1	19.0	
3	Drain Side Wall Concrete	M20	22/03/2021	29/03/2021	150.94 X 151.97 X 149.35	22939	8.993	419.8	18.3	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ದಾಸರಹಳ್ಳಿ ಬಿಬಿಎಂಪಿ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 19/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 24-03-21

Customer ID : Drain Side Wall Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	22/03/2021	19/04/2021	151.02 X 150.78 X 150.83	22771	8.410	524.3	23.0	22.7
2	Drain Side Wall Concrete	M20	22/03/2021	19/04/2021	150.09 X 150.84 X 151.87	22640	8.093	500.6	22.1	
3	Drain Side Wall Concrete	M20	22/03/2021	19/04/2021	150.08 X 151.14 X 150.14	22683	8.248	522.9	23.1	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಸಹಾಯಕ ಅಭಿಯಂತರರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 02/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 29-03-21

Customer ID : Drain Side Wall Concrete, (Day care Tuition Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/03/2021	02/04/2021	149.50 X 149.60 X 150.28	22365	8.600	410.2	18.3	18.2
2	Drain Side Wall Concrete	M20	26/03/2021	02/04/2021	149.11 X 150.87 X 151.05	22497	8.788	410.3	18.2	
3	Drain Side Wall Concrete	M20	26/03/2021	02/04/2021	150.89 X 150.50 X 150.29	22709	8.993	411.8	18.1	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 23/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 29-03-21

Customer ID : Drain Side Wall Concrete, (Day care Tuition Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/03/2021	23/04/2021	149.71 X 150.49 X 150.53	22529	8.410	533.7	23.7	23.3
2	Drain Side Wall Concrete	M20	26/03/2021	23/04/2021	149.88 X 149.57 X 151.80	22418	8.093	502.8	22.4	
3	Drain Side Wall Concrete	M20	26/03/2021	23/04/2021	151.73 X 151.97 X 150.65	23058	8.248	546.2	23.7	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Lab ID : CP-2021-02-27-54

Date: 02/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 29-03-21

Customer ID : Drain Side Wall Concrete, (6th Cross Road CC Drain)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/03/2021	02/04/2021	149.15 X 151.32 X 151.43	22569	8.600	418.0	18.5	18.6
2	Drain Side Wall Concrete	M20	26/03/2021	02/04/2021	151.98 X 150.93 X 150.13	22939	8.788	418.1	18.2	
3	Drain Side Wall Concrete	M20	26/03/2021	02/04/2021	150.24 X 149.68 X 150.30	22488	8.993	427.2	19.0	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 23/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 29-03-21

Customer ID : Drain Side Wall Concrete, (6th Cross Road CC Drain)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	26/03/2021	23/04/2021	149.19 X 151.49 X 151.03	22601	8.410	540.0	23.9	23.3
2	Drain Side Wall Concrete	M20	26/03/2021	23/04/2021	151.12 X 151.47 X 149.67	22891	8.093	507.3	22.2	
3	Drain Side Wall Concrete	M20	26/03/2021	23/04/2021	149.86 X 149.54 X 150.47	22410	8.248	534.6	23.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-02-27-54**

Date: 06/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Drain Side Wall Concrete, (9th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/03/2021	06/04/2021	149.57 X 150.91 X 149.17	22572	8.600	424.6	18.8	
2	Drain Side Wall Concrete	M20	30/03/2021	06/04/2021	150.72 X 150.85 X 151.01	22737	8.788	424.7	18.7	18.7
3	Drain Side Wall Concrete	M20	30/03/2021	06/04/2021	150.45 X 150.38 X 149.19	22624	8.993	422.5	18.7	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 27/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Drain Side Wall Concrete, (9th Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/03/2021	27/04/2021	150.74 X 151.04 X 150.10	22768	8.410	532.4	23.4	22.9
2	Drain Side Wall Concrete	M20	30/03/2021	27/04/2021	151.10 X 151.70 X 151.74	22923	8.093	509.4	22.2	
3	Drain Side Wall Concrete	M20	30/03/2021	27/04/2021	151.61 X 151.56 X 151.96	22977	8.248	532.0	23.2	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-27-54

Date: 06/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinayaka Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Drain Side Wall Concrete, (6th Cross, Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/03/2021	06/04/2021	151.52 X 150.75 X 149.85	22842	8.600	425.6	18.6	18.7
2	Drain Side Wall Concrete	M20	30/03/2021	06/04/2021	151.86 X 150.40 X 149.65	22841	8.788	433.5	19.0	
3	Drain Side Wall Concrete	M20	30/03/2021	06/04/2021	149.78 X 150.02 X 151.50	22470	8.993	416.5	18.5	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 27/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Drain Side Wall Concrete, (6th Cross, Cross Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	30/03/2021	27/04/2021	151.91 X 151.38 X 151.96	22996	8.410	530.2	23.1	23.1
2	Drain Side Wall Concrete	M20	30/03/2021	27/04/2021	150.95 X 149.98 X 151.51	22638	8.093	512.4	22.6	
3	Drain Side Wall Concrete	M20	30/03/2021	27/04/2021	149.90 X 149.50 X 151.85	22410	8.248	531.1	23.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-27-54

Date: 23/03/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinayaka Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 18-03-21

Customer ID : Culvert Bottom Slab Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	16/03/2021	23/03/2021	151.55 X 150.47 X 151.59	22804	8.600	426.0	18.7	18.7
2	Culvert Bottom Slab Concrete	M20	16/03/2021	23/03/2021	150.56 X 151.55 X 149.92	22817	8.788	430.7	18.9	
3	Culvert Bottom Slab Concrete	M20	16/03/2021	23/03/2021	149.02 X 149.92 X 150.39	22341	8.993	411.6	18.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 14/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 18-03-21

Customer ID : Culvert Bottom Slab Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2021

Sl No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	16/03/2021	13/04/2021	150.39 X 150.12 X 150.61	22577	8.410	538.6	23.9	23.3
2	Culvert Bottom Slab Concrete	M20	16/03/2021	13/04/2021	149.95 X 149.33 X 149.65	22392	8.093	502.1	22.4	
3	Culvert Bottom Slab Concrete	M20	16/03/2021	13/04/2021	150.49 X 150.96 X 149.12	22719	8.248	539.9	23.8	

*The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54 Date: 06/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Culvert Side Wall Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/03/2021	06/04/2021	150.68 X 149.33 X 150.93	22500	8.600	419.4	18.6	18.9
2	Culvert Side Wall Concrete	M20	30/03/2021	06/04/2021	149.82 X 150.56 X 151.31	22557	8.788	427.8	19.0	
3	Culvert Side Wall Concrete	M20	30/03/2021	06/04/2021	149.09 X 150.88 X 149.34	22496	8.993	426.8	19.0	

*The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

Lab ID : CP-2021-02-27-54

Date: 27/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Culvert Side Wall Concrete, (4th cross from main road to dead end)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/03/2021	27/04/2021	149.68 X 149.38 X 151.60	22360	**8.410**	530.3	23.7	23.2
2	Culvert Side Wall Concrete	M20	30/03/2021	27/04/2021	151.67 X 151.02 X 151.10	22905	**8.093**	507.6	22.2	
3	Culvert Side Wall Concrete	M20	30/03/2021	27/04/2021	149.92 X 151.26 X 150.68	22677	**8.248**	539.9	23.8	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-27-54

Date: 06/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Culvert Side Wall Concrete, (MNK Vidyakendra main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/03/2021	06/04/2021	151.97 X 149.84 X 151.18	22771	8.600	410.6	18.0	18.2
2	Culvert Side Wall Concrete	M20	30/03/2021	06/04/2021	150.24 X 151.88 X 151.25	22819	8.788	419.6	18.4	
3	Culvert Side Wall Concrete	M20	30/03/2021	06/04/2021	151.71 X 150.98 X 151.31	22906	8.993	414.5	18.1	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1

****End of Report****

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಆಯುಕ್ತರು ಪಶ್ಚಿಮ ವಲಯ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-27-54

Date: 27/04/2021

Project Name : Improvements to Roads and Drains at Anjanadri Layout Surrounding Area in Ward No 06 Thanisandra

Agency : Sri. Vinaya Builders, Prop.Kumar Raju K, No:10 Gokul Nilaya, Dhanalakshmi L/O, Opp Indian Oil Petrol Bank, Thindlu Main Road, Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/186/2020-21

Date of Receipt : 01-04-21

Customer ID : Culvert Side Wall Concrete, (MNK Vidyakendra main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	30/03/2021	27/04/2021	150.20 X 150.17 X 151.28	22557	8.410	537.1	23.8	23.0
2	Culvert Side Wall Concrete	M20	30/03/2021	27/04/2021	150.97 X 150.01 X 150.42	22647	8.093	501.6	22.1	
3	Culvert Side Wall Concrete	M20	30/03/2021	27/04/2021	150.70 X 149.15 X 150.36	22477	8.248	518.1	23.0	

*The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

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